PTO/SB/08B (08-03)

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/615,342
				Filing Date	July 7, 2003
				First Named Inventor	David Scott Wishart
				Art Unit	2857
(use as many sheets as necessary)				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	080586-000200US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
[initials]	1	ILES "Clinical biofluids," Encyclopedia of Analytical Science: Nuclear Magnet Spectroscopy - Applications: 3532-3544 (1995). (ND no Ph)	
[initials]	2	LINDON et al. "Biofluids Studied by NMR," In Encyclopedia of Spectroscopy and Spectrometry. Academic Press, pp. ~~98-116~~ 1-22 (2000). (ND no Ph)	
[initials]	3	NICHOLSON et al. "1H NMR spectroscopy of biological fluids and the investigation of perturbed metabolic processes," Magnetic Resonance in Food Science, Belton, PS et al. (eds), Royal Society of Chemistry (pubs); 40/7:12451250 (1994). (ND no Ph)	
[initials]	4	WEVERS et al. "High-resolution 1H-NMR spectroscopy of blood plasma for metabolic studies," Clinical Chemistry 40/7:1245-1250 (1994). (ND no Ph)	

Examiner Signature	[signature]	Date Considered	6-12-04

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete if Known	
Application Number	10/615,342
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	2857
Examiner Name	~~Unassigned~~ WACHSMAN
Attorney Docket Number	080586-000200US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Class	Subclass
	1	2003/0023386	01-30-2003	Aranibar et al.	702	19
	2	2002/0145425	10-10-2002	Ebbels et al.	324	309
	3	6,063,028	05-16-2000	Schauss et al.	600	300
	4	6,035,246	03-07-2000	Wagner	700	266
	5	5,926,773	07-20-1999	Wagner	702	22
	6	5,887,588	03-30-1999	Usenius et al.	600	410
	7	5,878,746	03-09-1999	Lemelson	600	407
	8	5,822,219	10-13-1998	Chen et al.	702	27
	9	5,726,570	03-10-1998	Spraul et al.	324	324
	10	5,710,713	01-20-1998	Wright et al.	702	23
	11	5,685,300	11-11-1997	Kuenstner	600	366
	12	5,668,373	09-16-1997	Robbat Jr., et al.	250	339.12
	13	5,629,210	05-13-1997	Hercules et al.	436	71
	14	5,618,734	04-08-1997	Niwa et al.	436	173
	15	5,617,861	04-08-1997	Ross et al.	600	410
	16	5,559,038	09-24-1996	Kolhouse et al.	436	86
	17	5,517,856	05-21-1996	Hofmann et al.	324	324
	18	5,470,750	11-28-1995	Bar-or	436	63
	19	5,446,681	08-29-1995	Gethner	702	27
	20	5,397,987	03-14-1995	Garritano	324	307
	21	5,397,989	03-14-1995	Spraul et al.	324	324
	22	5,338,687	08-16-1994	Lee	436	173
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	27	5,261,405	11-16-1993	Fossel	600	410
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	29	5,247,175	09-21-1993	Schoen et al.	250	281
	30	5,231,031	07-27-1993	Szwergold et al.	436	63
	31	5,229,716	07-20-1993	Demoment et al.	324	307
	32	5,220,302	06-15-1993	Nunnally et al.	335	307
	33	5,218,529	06-08-1993	Meyer et al.	702	28
	34	5,213,101	05-25-1993	Fossel	600	410
	35	5,207,715	05-04-1993	Fossel	600	410
	36	5,198,766	03-30-1993	Spraul et al.	324	300
	37	5,146,168	09-08-1992	Bartuska	324	324
	38	5,124,267	06-23-1992	Humpel et al.	436	518
	39	5,072,732	12-17-1991	Rapoport et al.	600	417
	40	5,055,389	10-08-1991	Bar-Or et al.	435	4
	41	5,046,846	09-10-1991	Ray et al.	356	326

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Sheet 2 of 5

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Application Number	10/615,342
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	2857
Examiner Name	~~Unassigned~~ WASHBURN
Attorney Docket Number	080586-000200US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Class	Subclass
	42	5,041,789	08-20-1991	Keller et al.	324	318
	43	5,015,954	05-14-1991	Dechene et al.	324	307
	44	4,988,628	01-29-1991	Nanji	436	173
	45	4,975,581	12-04-1990	Robinson et al.	250	339.09
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	47	4,918,021	04-17-1990	Fossel	436	64
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	49	4,851,780	07-25-1989	Dejon et al.	324	322
	50	4,728,889	03-01-1988	Gadian et al.	324	307
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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	54	EP0350546	01-17-1990	Advanced Techtronics		☐
	55	WO00/65366	11-02-2000	Lipomed, Inc.		☐
	56	WO00/51054	08-31-2000	Lipomed, Inc.		☐
	57	WO99/54751	10-28-1999	Sorland		☐
	58	~~WO98/30864~~	~~09-11-1998~~	~~Universidad Nacional et al.~~		☐
	59	WO97/47973	12-18-1997	The McLean Hospital Corp.		☐
	60	WO96/38083	12-05-1996	The John Hopkins University		☐
	61	WO94/20863	09-15-1994	Birkbeck College		☐
	62	WO93/03450	02-18-1993	North Carolina State Univ.		☐
	63	WO92/11807	07-23-1992	The Beth Israel Hospital		☐
	64	WO91/16852	11-14-1991	Chiscan AB		☐
	65	WO91/10128	07-11-1991	The Beth Israel Hospital		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

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Application Number	10/615,342
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	2857
Examiner Name	~~Unassigned~~ WA CHIMAN
Attorney Docket Number	080586-000200US

NON PATENT LITERATURE DOCUMENTS

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	66	"NMR Lipoprotein Subclass Analysis: NMR LipoProfile Research Service", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, http://www.lipoprofile.com/lipomed/ Products_Technology/R&D/R&D.htm [printed March 14, 2001]	
	67	"Frequently Asked Questions", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, http://www.lipoprofile.com/lipomed/FAQS/faq.html [printed March 14, 2001]	
	68	"Understanding the NMR LipoProfile", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610 (2001).	
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	75	"AMIX Tutorial", http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/amix_aurelia/amix_tourTOC.html [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.	
	76	"Who we are", http://www.acdlabs.com/company.html [printed March 19, 2001], Advanced Chemistry Development Inc., 90 Adelaide Street West, Suite 702, Toronto, Ontario, M5H 3V9, Canada.	
	77	"ACD/Labs - Spectral Laboratory", http://www.acdlabs.com/products/spec_lab [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 5

Complete if Known	
Application Number	10/615,342
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	2857
Examiner Name	~~Unassigned~~ WITCHEY
Attorney Docket Number	080586-000200US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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	88	BAMFORTH et al "Diagnosis of inborn errors of metabolish using 1H NMR spectroscopic analysis of urine," J. Inher. Metab. Dis., SSIEM and Kluwer Academic Publishers, printed in the Netherlands, 22:297-301 (1999). (No month)	
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	95	HOLMES et al "Proton NMR analysis of plasma from renal failure patients: evaluation of sample preparation and spectral-editing methods," Journal of Pharmaceutical & Biomedical Analysis 8:955-958 (1990). (No month)	
	96	HOLMES et al,"Automatic Data Reduction and Pattern Recognition Methods for Analysis of 1H Nuclear Magnetic Resonance Spectra of Human Urine...," Analytical Biochemistry 220:284-296 (1994) (No month)	
	97	HORNAK "The Basics of NMR," available at <http://www.cis.rit.edu/htbooks/nmr> (1997, 2002). (No month)	
	98	LINDON et al. "Biofluids Studied by NMR," In Encyclopedia of Spectroscopy and Spectrometry. Academic Press, pp. 98-116 (2002). (No month)	
	99	LINDON et al. "Multicentre Assessment of Small Molecule Quantitation in Human Blood Plasma Using 1H NMR Spectroscopy," Journal of Magnetic Resonance Analysis, England, pp. 68-74(1996).	

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Sheet	5	of	5

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Application Number	10/615,342
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First Named Inventor	David Scott Wishart
Art Unit	2857
Examiner Name	~~Unassigned~~ WACHSMAN
Attorney Docket Number	080586-000200US

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Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
KW	100	LINDON et al. "NMR Spectroscopy of Biofluids," Annual Reports on NMR Spectroscopy, Academic Press, ISBN 012505338X, 38:1-88 (1999). Unmonth/l.	
KW	101	NICHOLSON et al "750 MHz 1H and 1H-13C NMR Spectroscopy of Human Blood Plasma," Analytical Chemistry, 67:793-811 (1995). Unmonth/l.	
KW	102	NICHOLSON et al. "'Metabonomics': understanding the metabolic responses of living systems [...] via multivariate statistical analysis of biological NMR spectroscopic data," Xenobiotica, UK, 29:1181-1189 (1999). Unmonth/l.	
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KW	105	ROBERTSON et al. "Metabonomics: Evaluation of Nuclear Magnetic Resonance (NMR) and Pattern Recognition Technology for [...] Toxicants," Toxicological Sciences 57:326-337 (2000). Unmonth/l.	
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PTO/SB/08B (04-03)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 1 of 1

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KW	1	PAN "Correlation Of Lactate and Ph In Human Skeletal Muscle After Exercise By 1H NMR" Magnetic Resonance In Medicine 20:57-65 (1991). (Not part of IDS)	

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Page 1 of 2

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Application Number	10/615,342
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Art Unit	~~Unassigned~~ 285
Examiner Name	~~Unassigned~~ WACHSMAN
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DW	1	US-5,343,389	08-30-1994	Otvos		436	123
DW	2	US-4,933,844	06-12-1990	Otvos		600	419

FOREIGN PATENT DOCUMENTS

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Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	080586-000200US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	3	EL-DEREDY "Pattern Recognition Approaches in Biomedical and Clinical Magnetic Resonance Spectroscopy: A Review," NMR In Biomedicine10: 99-124 n(1997). Cwamath/	
	4	KURHANEWICZ "Citrate Alterations in Primary and Metastatic Human Prostatic Adenocarcinomas: ^{1}H Magnetic Resonance Spectroscopy and Biochemical Study," Magnetic Resonance In Medicine 29: 149-157 (1993).	
	5	LEVY et al."Data Processing" Encyclopedia Of Nuclear Magnetic Resonance, D.M.Grant et al. (eds.), John Wiley & Sons, vol. 3, pages 1548-1558 (1996). Cwamath/	
	6	SPRAUL et al.: "Automatic Reduction of NMR Spectroscopic Data for Statistical and Pattern Recognition Classification of Samples," Journal Of Pharmaceutical And Biomedical Analysis 12: 1215-1225 (1994). Cwamath/	

Examiner Signature		Date Considered	6-12-09

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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